# 506599770 04/08/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6646575

SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGNMENT	
		ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
YO HAN LEE			04/07/2021
SU MI MOON			04/06/2021
HYUN MIN CHO			04/07/2021
RECEIVING PARTY DA	TA		
Name:	SAMSUI	NG DISPLAY CO., LTD.	
Street Address:	1, SAMS	SUNG-RO, GIHEUNG-GU	
City:	YONGIN	I-SI, GYEONGGI-DO	
State/Country:	KOREA,	, REPUBLIC OF	
Postal Code:	17113		
	Total: 1	Number	
	Total: 1		
PROPERTY NUMBERS Property Type	Total: 1	Number	]
Property Type		<b>Number</b> 7283771	
Property Type Application Number:	1		
Property Type Application Number: CORRESPONDENCE D	1 0ATA	7283771	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i>	PATA (2 e sent to	7283771 202)697-4306 <i>the e-mail address first; if that is un</i>	
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i>	PATA (2 e sent to a provided;	7283771 202)697-4306 the e-mail address first; if that is un if that is unsuccessful, it will be se	
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Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name:	PATA (2 e sent to a provided; 2 ir K	7283771 202)697-4306 <i>the e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be se</i> 2022630809 nfo@kilepark.com KILE PARK REED & HOUTTEMAN PL	ent via US Mail.
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Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name:	PATA (2 e sent to a provided; 2 ir K 1 S	7283771 202)697-4306 <i>the e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be se</i> 2022630809 nfo@kilepark.com KILE PARK REED & HOUTTEMAN PL	ent via US Mail.
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if p</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	PATA (2 e sent to a provided; 2 ir K 1 S V	7283771 202)697-4306 <i>the e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be se</i> 2022630809 nfo@kilepark.com KILE PARK REED & HOUTTEMAN PL 101 30TH STREET, N.W. SUITE 500	ent via US Mail.
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	PATA (2 e sent to a provided; 2 ir K 1 S V	7283771 202)697-4306 <i>the e-mail address first; if that is un</i> <i>if that is unsuccessful, it will be se</i> 2022630809 nfo@kilepark.com KILE PARK REED & HOUTTEMAN PL 101 30TH STREET, N.W. SUITE 500 VASHINGTON, D.C. 20007	ent via US Mail.
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	PATA (2 e sent to a provided; 2 ir K 1 S V	7283771 202)697-4306 the e-mail address first; if that is un if that is unsuccessful, it will be se 2022630809 nfo@kilepark.com KILE PARK REED & HOUTTEMAN PL 101 30TH STREET, N.W. SUITE 500 VASHINGTON, D.C. 20007 SD-201138-SKB	ent via US Mail.
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NUME NAME OF SUBMITTER:	PATA (2 e sent to a provided; 2 ir K 1 S V	7283771 202)697-4306 the e-mail address first; if that is un if that is unsuccessful, it will be se 2022630809 nfo@kilepark.com KILE PARK REED & HOUTTEMAN PL 101 30TH STREET, N.W. SUITE 500 VASHINGTON, D.C. 20007 SD-201138-SKB JAE Y. PARK	ent via US Mail.

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# COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	PIXEL, DISPLAY DEVICE HAVING SAME AND DRIVING METHOD THEREOF
As the below n	imed inventor. I hereby declare that:
This declaration	1 is directed to:
🔀 The	attached application,
🗍 Unit	ed States application number filed on, or
🛛 РСТ	international application number PCT/KR2019/004163 filed on April 8, 2019.
The above-iden	tified application was made or authorized to be made by me.
application. I have reviewed	im the original inventor or an original joint inventor of a claimed invention in the I and understand the contents of the above-identified application, including the vare of the duty to disclose information which is material to patentability as
under 18 U.S.C WHEREAS, <u>S/</u> <u>Gyeonggi-do. 1</u> (hereinafter refe in and to said ir	<ul> <li>wiedge that any willful false statement made in this declaration is punishable</li> <li>1001 by fine or imprisonment of not more than five (5) years, or both.</li> <li>MSUNG DISPLAY CO., LTD. of 1. Samsung-ro, Giheung-gu, Yongin-si,</li> <li>7113. Republic of Korea, its heirs, successors, legal representatives and assigns irred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest vention and in and to any Letters Patent(s) that may be granted therefore in the</li> </ul>
NOW, THEREF consideration pa issigned and tra- ull and exclusiv lependencies an Patent(s) which	America and in any foreign countries. ORE, to all whom it may concern, be it known that, for good and valuable id to the undersigned, the receipt of which is hereby acknowledged, I have sold, asferred, and by these presents does sell, assign and transfer unto the Assignee the e right to the said invention in the United States of America, its territories, d possessions and the entire right, title and interest in and to any and all Letters may be granted therefore in the United States of America, its territories, d possessions, and in any and all foreign countries;
nd to any and a	Il divisions, reissues, continuations, conversions and extensions thereof for the ful
	Kile Park Reed & Houtteman pllc
/ Docket No. SD-	

SKB Page 1 of 3 법무법인(유)세종\_LO-201807-042-1-US0

> PATENT 0.253359202104071 REEL: 055873 FRAME: 0297

이요한/yohan7.les/L-P/J(디스플레이研)/11.99.60.39/2021-04-07.10:12.37

#### term or terms for which the same may be granted.

I agree to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

I agree to execute all papers and documents and to perform any act which may be necessary in connection with claims and provisions of the International Convention for the Protection of Industrial Property or similar agreements.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by me if this Assignment and sale had not been made.

I hereby authorize and request the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignce, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I declare that all statements made in the above assignment of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C.1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

## LEGAL NAME OF INVENTOR

Inventor: Yo Han LEE

iline il

Citizenship: <u>Republic of Korea</u> country

Date: <u>21. 4. [</u>

Signature: Yo Han LEE

PATENT

REEL: 055873 FRAME: 0298

2104071

#### KILE PARK REED & HOUTTEMAN PLLC

Atty Docket No. SD-201138-SKB Page 2 of 3 법무법인(유)세종 LO-201807-042-1-US0

Inventor: Su Mi MOON	Citizenship: Republic of Korea	
name	country	
Date:	Signature:	
LEGAL NAME OF INVENTOR		
Inventor: Hyun Min CHO	Citizenship: Republic of Korea	
name	country	
	Signature: <u>Нуил Міи С</u>	

KILE PARK REED & HOUTTEMAN PLLC

Any Docket No. SD-201138-SKB Page 3 of 3 법무법인(유)세종\_LO-201807-042-1-US0

이요한/yohan7.lee/L-P/J(디스물레이研)/11.99.60.39/2021-04-07 10:22:34

## COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of Invention	PIXEL, DISPLAY DEVICE HAVING SAME AND DRIVING METHOD THEREOF		
As the below named inventor, I hereby declare that:			
This declaration is directed to:			
The attached application,			
United States application number filed on, or			
PCT international application number <u>PCT/KR2019/004163</u> filed on <u>April 8, 2019</u> .			
The above-identifi	ed application was made or authorized to be made by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
I have reviewed and understand the contents of the above-identified application, including the claims. I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.			
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
WHEREAS, <u>SAMSUNG DISPLAY CO., LTD.</u> of <u>1</u> , <u>Samsung-ro</u> , <u>Giheung-gu</u> , <u>Yongin-si</u> , <u>Gyeonggi-do</u> , <u>17113</u> , <u>Republic of Korea</u> , its heirs, successors, legal representatives and assigns (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefore in the United States of America and in any foreign countries.			
NOW, THEREFORE, to all whom it may concern, be it known that, for good and valuable consideration paid to the undersigned, the receipt of which is hereby acknowledged, I have sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefore in the United States of America, its territories, dependencies and possessions, and in any and all foreign countries;			
and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full			

KILE PARK REED & HOUTTEMAN PLLC

Atty Docket No. SD-201138-SKB Page 1 of 3 법무법인(유)세종\_LO-201807-042-1-US0

> PATENT REEL: 055873 FRAME: 0300

term or terms for which the same may be granted.

I agree to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

I agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

I agree to execute all papers and documents and to perform any act which may be necessary in connection with claims and provisions of the International Convention for the Protection of Industrial Property or similar agreements.

I agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by me if this Assignment and sale had not been made.

I hereby authorize and request the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

I declare that all statements made in the above assignment of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C.1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Inventor: <u>Yo Han LEE</u> Citizensh name	ip: <u>Republic of Korea</u> country
Date: Signature	:

KILE PARK REED & HOUTTEMAN PLLC

Atty Docket No. SD-201138-SKB Page 2 of 3 법무법인(유)세종\_LO-201807-042-1-US0

> PATENT REEL: 055873 FRAME: 0301

x,

LEGAL NAME OF INVENTOR	
Inventor: Su Mi MOON	Citizenship: <u>Republic of Korea</u>
Date: 1021.4.6	Signature:
LEGAL NAME OF INVENTOR	
Inventor: Hyun Min CHO name	Citizenship: <u>Republic of Korea</u> country
Date;	Signature:

KILE PARK REED & HOUTTEMAN PLLC

Atty Docket No. SD-201138-SKB Page 3 of 3 법무법인(유)세종\_LO-201807-042-1-US0

> PATENT REEL: 055873 FRAME: 0302

**RECORDED: 04/08/2021**